REMARKS

The Office Action dated September 3, 2008, has been received and carefully noted. The following remarks are submitted as a full and complete response thereto. Claims 1-17, 19, 21-60, 77-92, 96-100, and 102-113 are currently pending in the application, of which claims 1, 9, 12-13, 16, 98-99, and 106-110 are independent claims.

In view of the following remarks, Applicants respectfully request reconsideration and timely withdrawal of the pending rejections to the claims for the reasons discussed below.

Claim Rejections under 35 U.S.C. §102(e)

The Office Action rejected claims 1-12, 19, 23-40, 77-87, 97-98, 102, and 106-107 under 35 U.S.C. §102(e) as being allegedly anticipated by Larsson, *et al.* (U.S. Patent No. 6,643,262) ("Larsson"). The Office alleged that Larsson discloses or suggests each and every element recited in claims 1-12, 19, 23-40, 77-87, 97-98, 102, and 106-107. Applicants respectfully submit that the claims recite subject matter that is neither disclosed nor suggested in Larsson.

Claim 1, upon which claims 2-8, 19, 21-37, 41-47, 51-57, 77-83, 96-97, and 102, depend, recites an apparatus in a cellular communications network. The apparatus includes a monitor configured to monitor at least one parameter related to a connection between a mobile station and a support node. The apparatus also includes a determining unit configured to determine if the connection between the support node and the mobile station

is to be released dependent solely on the at least one parameter monitored by the monitor. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 9, upon which claims 10-11, 38-40, 48-50, 58-60, and 84-86 depend, recites an apparatus in a cellular communications network. The apparatus includes a monitor configured to monitor at least one parameter related to a connection between a mobile station and a support node, and a determining unit configured to determine if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter monitored by the monitor. The at least one parameter includes an elapsed time since the last use of the connection. The determining unit is further configured to determine that the connection is to be released if the monitor indicates that the connection has not been used for a predetermined time. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 12, upon which claim 87 depends, recites an apparatus in a cellular communications network. The apparatus includes a monitor configured to monitor at least one parameter related to a connection between a mobile station and a support node, and a determining unit configured to determine if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter monitored by the monitoring means. The at least one parameter includes a state of the mobile station. The determining unit is further configured to determine if the connection is to be released based on the state of the mobile station determined by the

monitor. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 98, upon which claim 100 depends, recites an apparatus. The apparatus includes a processor configured to monitor at least one parameter of a connection established between a mobile station and a support node and to determine if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter. The apparatus is implemented in a cellular communication network. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 106 recites an apparatus in a cellular communications network. The apparatus includes monitoring means for monitoring at least one parameter related to a connection between a mobile station and a support node, and determining means for determining if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter monitored by the means for monitoring. The at least one parameter includes an elapsed time since the last use of the connection. The determining means is configured to determine that the connection is to be released if the monitoring means indicates that the connection has not been used for a predetermined time. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 107 recites an apparatus in a cellular communications network. The apparatus includes monitoring means for monitoring at least one parameter related to a

connection between a mobile station and an support node, and determining means for determining if the connection between the support node sand the mobile station is to be released dependent solely on the at least one parameter monitored by the monitoring means. The at least one parameter includes a state of the mobile station, and the determining means is configured to determine if the connection is to be released based on the state of the mobile station determined by the monitoring means. The apparatus is configured to provide the connection between the mobile station and the support node.

As will be discussed below, Larsson fails to disclose or suggest every feature recited in claims 1-12, 19, 23-40, 77-87, 97-98, 102, and 106-107, and therefore fails to provide the features discussed above.

Larsson is directed to a system and method for dynamic sharing of connection resources. In particular, Larsson describes a system and method for the efficient utilization of core telecommunication resources, including both switching and transport resources, during a datacom session over a connection-oriented telecommunication system (Larsson, Abstract).

Applicants respectfully submit that Larsson fails to disclose or suggest each and every element recited in claims 1, 9, 12, 98, and 106-107. In particular, Larsson fails to disclose or suggest, at least, "a determining unit configured to determine <u>if the connection between said support node and said mobile station is to be released</u> dependent solely on said at least one parameter monitored by said monitor," as recited in claim 1 (emphasis added), and similarly recited in claims 9, 12, 98, and 106-107.

The Office Action alleged that Larsson discloses the aforementioned claim features, citing column 11, lines 16-27, and column 15, lines 1-15. In particular, the Office Action alleged that the RSS (remote subscriber switch) node anticipates the features of the "apparatus," the free set anticipates the features of the "mobile station," and the exchange anticipates the features of the "support node" disclosed in certain embodiments of the present invention. However, a review of these passages in relation to the features of the RSS, the free set, and the exchange described in Larsson demonstrates that the teachings of Larsson fails to disclose or suggest each and every element recited in claims 1, 9, 12, 98, and 106-107.

Rather, Larsson, as previously noted above, describes a system for the efficient utilization of core telecommunications and resources. As described in column 15, lines 1-5, Larsson teaches that one or both of the adapters (the RSS node prior to the exchange node), are designed to notify the exchange whenever a session is found to be inactive according to pre-calculated or specifically programmed criteria. The notification of inactivity is performed by sending a pause signal.

Larsson further describes that the dynamic connection session enters a dormant or paused phase. The transition to the paused state causes the dynamic connection to be partitioned into at least two disjointed segments with the segment linking the two disjointed segments representing critical core telecommunication resources. The *linking* segment resources are released or reused by other users.

As further described in column 11, lines 16-27, Larsson teaches that when a period of inactivity is detected, the system causes a session and a telephone call to be made dormant without bringing the connection to an end. Hence, the connection from the mobile station to the exchange is not completely released. Rather, only a partial release of the connection from the remote subscriber stage to the exchange is carried out.

Accordingly, Larsson fails to disclose or suggest "a determining unit configured to determine if the connection between said support node and said mobile station is to be released dependent solely on said at least one parameter monitored by said monitor," as recited in claim 1 (emphasis added), and similarly recited in claims 9, 12, 98, and 106-107.

Rather, Larsson merely describes that a determination is made if the connection between the support node and the apparatus is to be released, while maintaining the connection between the apparatus and the mobile station. Thus, Larsson maintains the connection between the mobile station and the apparatus to allow a shift restoration of connection between end parties. One of ordinary skill in the art would understand that this approach may be problematic for cellular communications because it may use up valuable radio network links that may be more optimally used for different mobile stations.

Accordingly, Larsson teaches away from the disconnection of the connection between the mobile station and the support node. As is described in column 11, lines 21-23, Larsson discloses that "the present invention permits the session as well as the telephone call to be made dormant without brining the connection to an end."

Furthermore, Applicants respectfully submit that the Office Action failed to address each and every element recited in the "wherein" clauses of the pending claims. The Office Action alleged that "wherein clauses do not require the steps to be performed," citing MPEP §2106(II)(C). Applicants respectfully submit that MPEP §2106(II)(C) further notes that the presence of a "wherein" term may give rise to a question of whether the limitation is really limiting. In fact, each of the "wherein" clauses recited in the pending claims clearly limits the structural features of the apparatus and the cellular communications network recited in the pending claims. For example, "the apparatus is configured to provide a connection between the mobile station and the support node," as recited in claim 1. Therefore, each and every element recited in the "wherein" clauses of the pending claims should be given patentable weight and considered in the examination of the present invention.

Accordingly, Larsson fails to disclose or suggest each and every element recited in claims 1, 9, 12, 98, and 106-107.

Claims 2-8, 19, 23-37, 77-83, 97, and 102 depend from claim 1. Claims 10-11, 38-40 and 84-86 depend from claim 9. Claim 87 depends from claim 12. Accordingly, claims 2-8, 19, 23-40, 77-87, 97, and 102 should be allowable for at least their dependency upon an allowable base claim, and for the specific limitations recited therein.

Therefore, Applicants respectfully request withdrawal of the rejections of claims 1-12, 19, 23-40, 77-87, 97-98, 102, and 106-107 under 35 U.S.C. §103(a) and

respectfully submit that claims 1, 9, 12, 98, and 106-107, and the claims that depend therefrom, are in condition for allowance.

Claim Rejections under 35 U.S.C. §103(a)

The Office Action rejected claims 13-17, 21-22, 41-60, 88-92, 96, 99-100, 103-105, and 108-113 under 35 U.S.C. §103(a) as being allegedly unpatentable over Larsson in view of Stephenson, *et al.* (U.S. Patent No. 6,119,000) ("Stephenson"). Applicants respectfully submit that the claims recite subject matter that is neither disclosed nor suggested in the combination of Larsson and Stephenson.

Claim 13, upon which claims 14-15 and 88-90 depend, recites an apparatus in a cellular communications network. The apparatus includes a monitor configured to monitor at least one parameter related to a connection between a mobile station and a support node, and a determining unit configured to determine if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter monitored by the monitor. The at least one parameter includes a movement of the mobile station, and the determining unit is further configured to determine if the connection should be released based on the movement of the mobile station monitored by the monitor. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 16, upon which claims 17 and 91-92 depends, recites an apparatus in a cellular communications network. The apparatus includes a monitor configured to

monitor at least one parameter related to a connection between a mobile station and a support node, and a determining unit configured to determine if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter monitored by the monitor. The at least one parameter includes a location of the mobile station, and the determining unit is further configured to determine if the connection should be released based on the location of the mobile station monitored by the monitor. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 99, upon which claims 103-105 depend, recites a method. The method includes establishing a connection between a mobile station and a support node in a cellular communications network through a radio network controller, monitoring, at the radio network controller, at least one parameter related to the connection between the mobile station and the support node. The method also includes determining, at the radio network controller, if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter.

Claim 108 recites an apparatus in a cellular communications network. The apparatus includes monitoring means for monitoring at least one parameter related to a connection between a mobile station and an support node, and determining means for determining if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter monitored by the monitoring means. The at least one parameter includes a movement of the mobile station, and the

determining means is configured to determine if the connection should be released based on the movement of the mobile station monitored by the monitoring means. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 109 recites an apparatus in a cellular communications network. The apparatus includes monitoring means for monitoring at least one parameter related to a connection between a mobile station and an support node, and determining means for determining if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter monitored by the monitoring means. The at least one parameter includes a location of the mobile station, and the determining means is configured to determine if the connection should be released based on the location of the mobile station monitored by the monitoring means. The apparatus is configured to provide the connection between the mobile station and the support node.

Claim 110, upon which claims 111-113 depend, recites a computer readable storage medium encoded with instructions that, if executed by a computer, performs a process. The process includes establishing a connection between a mobile station and an support node in a communication network through a radio network controller, and monitoring, at the radio network controller, at least one parameter related to the connection between the mobile station and the support node. The process further includes determining, at the radio network controller, if the connection between the support node and the mobile station is to be released dependent solely on the at least one parameter.

As will be discussed below, the combination of Larsson and Stephenson would fail to disclose or suggest every feature recited in claims 13-17, 21-22, 41-60, 88-92, 96, 99-100, 103-105, and 108-113, and therefore fails to provide the features discussed above.

Larsson was discussed above. Stephenson is directed to a method and apparatus for tracking identity-code changes in a communication system (Stephenson, Abstract).

As previously noted above, Larsson fails to disclose or suggest each and every element recited in claims 1, 9, 12, and 98. Stephenson fails to cure the deficiencies of Larsson. In particular, Stephenson fails to disclose or suggest, at least, "a determining unit configured to determine if the connection between said support node and said mobile station is to be released dependent solely on said at least one parameter monitored by said monitor," as recited in claim 1 (emphasis added), and similarly recited in claims 9, 12, and 98.

Accordingly, assuming *arguendo* that the teachings of Larsson could be combined with the teachings of Stephenson, the combination of Larsson and Stephenson would fail to disclose or suggest each and every element recited in claims 1, 9, 12, and 98.

Claims 13, 16, 98, and 108-110 each have their own claim scope, but additionally contain recitations similar to those discussed above for claim 1. Accordingly, the combination of Larsson and Stephenson would also fail to disclose or suggest each and every element recited in claims 13, 16, 99, and 108-110.

Claims 21-22, 41-47, 51-57, and 96 depend from claim 1. Claims 48-50 and 58-60 depend from claim 9. Claim 87 depends from claim 12. Claims 14-15 and 88-90 depend from claim 13. Claims 17 and 91-92 depend from claim 16. Claim 100 depends from claim 98. Claims 103-105 depend from claim 99. Claims 111-113 depend from claim 110. Accordingly, claims 14-15, 17, 21-22, 41-60, 87-92, 96, 100, 103-105, and 111-113 should be allowable for at least their dependency upon an allowable base claim, and for the specific limitations recited therein.

Therefore, Applicants respectfully request withdrawal of the rejections of claims 13-17, 21-22, 41-60, 88-92, 96, 99-100, 103-105, and 108-113 under 35 U.S.C. §103(a) and respectfully submit that claims 13, 16, 99, and 108-110, and the claims that depend therefrom, are in condition for allowance.

CONCLUSION

In conclusion, Applicants respectfully submit that Larsson and Stephenson, whether taken individually or in combination, fail to disclose or suggest each and every element recited in claims 1-17, 19, 21-60, 77-92, 96-100, and 102-113. The distinctions previously noted are more than sufficient to render the claimed invention unanticipated and non-obvious. It is therefore respectfully requested that all of claims 1-17, 19, 21-60, 77-92, 96-100, and 102-113 be allowed, and this present application be passed to issuance.

If for any reason the Examiner determines that the application is not now in condition for allowance, it is respectfully requested that the Examiner contact, by telephone, Applicants' undersigned representative at the indicated telephone number to arrange for an interview to expedite the disposition of this application.

In the event this paper is not being timely filed, Applicants respectfully petition for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account 50-2222.

Respectfully submitted,

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